

EM MISSION SUCCESS INDICATORS **(CONTINUED)**

REDUCED ELIMINATED TOTAL AMOUNT OF INVENTORY AND MATERIALS REMAINING TO BE CLEANED UP

This section describes work being done to reduce or eliminate the total amount of nuclear inventory and materials at Hanford remaining to be cleaned up. Work activity in this area focuses on (but is not strictly limited to) waste disposal, plant deactivation, and other clean up processes.

Specific accomplishments, as well as status of work in progress, are outlined, and challenges to these efforts (as applicable) are also noted.

ACCOMPLISHMENTS / STATUS

In support of the goal to reduce the total amount of inventory and materials, excellent thermal stabilization progress continued at the Plutonium Finishing Plant (PFP). Thirty-eight cans of plutonium-bearing oxide feed materials have been stabilized through the furnaces in the 234-5Z building since restart in January. Six thermal stabilization furnace runs were successfully completed. In parallel with this effort, the Contractor continues to develop more detailed project plans and schedules, reengineering core work processes, and re-evaluating the plutonium vulnerabilities associated with the continued storage of unstabilized plutonium-bearing materials.

During April, shipments totaling 54,028 metric tons (59,557 tons) of contaminated waste were transported to the ERDF from all Environmental Restoration (ER) project sources. To date, 1,433,212 metric tons (1,579,855 tons) of material have been received and placed in the ERDF. This is essentially on schedule with the planned quantity being 1,438,330 metric tons (1,585,496 tons).

REDUCED ELIMINATED TOTAL AMOUNT OF INVENTORY AND MATERIALS REMAINING TO BE CLEANED UP (CONTINUED)

The ERDF expansion, necessary to provide adequate disposal for contaminated soil, is proceeding on schedule. Excavation of the two new cells has been completed; and installation of soil/groundwater protection systems have begun.

CHALLENGES

As a result of a recent evaluation of alternate technologies for stabilization and packaging equipment of PFP nuclear material inventories, a significant change in the Project W-460, “Plutonium Stabilization and Handling” (PuSH) path forward is now being planned. Extensive rework of project analysis and documentation is underway to implement the planned change from participation in the national Plutonium Stabilization and Packaging (PuSAP) contract to establishment of local construction contracts including inter-site work between Richland and the Savannah River site (SRS).